```
* * *
     >>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
            of new databases, price changes, etc.
SYSTEM: HOME
Cost is in DialUnits
Menu System II: D2 version 1.7.9 term=ASCII
                     *** DIALOG HOMEBASE(SM) Main Menu ***
 Information:
  1. Announcements (new files, reloads, etc.)
  2. Database, Rates, & Command Descriptions
  3. Help in Choosing Databases for Your Topic
  4. Customer Services (telephone assistance, training, seminars, etc.)
  5. Product Descriptions
 Connections:
  6. DIALOG(R) Document Delivery
  7. Data Star(R)
                                              All rights reserved.
    (c) 2003 Dialog, a Thomson business.
                                                /NOMENU = Command Mode
                           /L = Logoff
      /H = Help
Enter an option number to view information or to connect to an online
 service. Enter a BEGIN command plus a file number to search a database
(e.g., B1 for ERIC).
? b 410
       06sep03 09:53:55 User243004 Session D76.1
                   0.161 DialUnits FileHomeBase
     $0.00 Estimated cost FileHomeBase
     $0.00 Estimated cost this search
     $0.00 Estimated total session cost
                                           0.161 DialUnits
File 410:Chronolog(R) 1981-2003/Aug
       (c) 2003 The Dialog Corporation
      Set Items Description
      --- -----
? set hi ;set hi
HILIGHT set on as ''
HILIGHT set on as ''
? b411
       06sep03 09:54:20 User243004 Session D76.2
            $0.00
                   0.072 DialUnits File410
           Estimated cost File410
     $0.00
     $0.08 TELNET
     $0.08 Estimated cost this search
     $0.08 Estimated total session cost 0.233 DialUnits
File 411:DIALINDEX(R)
DIALINDEX (R)
   (c) 2003 The Dialog Corporation plc
*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? sf allscience
   You have 282 files in your file list.
   (To see banners, use SHOW FILES command)
? s bacteri? and (pheromone or lactone) and plant? and (disease or pathogen) and
(gene or DNA or nucleic or nucleotide or protein or polypeptide or antibody)
```

Your SELECT statement is:

s bacteri? and (pheromone or lactone) and plant? and (disease or pathogen) and (gene or DNA or nucleic or nucleotide or protein or polypeptide or antibody)

```
File
           Items
           _ _ _ _ _
                     5: Biosis Previews(R)_1969-2003/Aug W5
              53
                     8: Ei Compendex(R) 1970-2003/Aug W4
               1
                     9: Business & Industry(R)_Jul/1994-2003/Sep 05
               1
                    10: AGRICOLA 70-2003/Aug
               7
               1
                    15: ABI/Inform(R) 1971-2003/Sep 05
                    16: Gale Group PROMT(R)_1990-2003/Sep 05
              10
                    20: Dialog Global Reporter_1997-2003/Sep 06
               1
              33
                    34: SciSearch(R) Cited Ref Sci_1990-2003/Aug W5
               3
                    35: Dissertation Abs Online 1861-2003/Aug
                    47: Gale Group Magazine DB(TM) 1959-2003/Aug 27
              17
              24
                    50: CAB Abstracts 1972-2003/Aug
                    71: ELSEVIER BIOBASE_1994-2003/Aug W5
              20
              27
                    73: EMBASE 1974-2003/Aug W5
              18
                    94: JICST-EPlus 1985-2003/Aug W5
              37
                    98: General Sci Abs/Full-Text 1984-2003/Jul
       Examined 50 files
               1
                   129: PHIND(Archival) 1980-2003/Aug W5
                   144: Pascal_1973-2003/Aug W4
              19
                   148: Gale Group Trade & Industry DB 1976-2003/Sep 04
                   149: TGG Health&Wellness DB(SM) 1976-2003/Aug W4
                   155: MEDLINE(R) 1966-2003/Aug W5
                   156: ToxFile 1965-2003/Aug W5
                   172: EMBASE Alert 2003/Aug W5
                   180: Federal Register 1985-2003/Sep 05
                   203: AGRIS 1974-2003/Aug
               3
       Examined 100 files
                   240: PAPERCHEM 1967-2003/Aug W5
               1
              13
                   266: FEDRIP 2003/Jul
                   285: BioBusiness(R) 1985-1998/Aug W1
               5
                   292: GEOBASE (TM) 1980-2003/Aug
                   340: CLAIMS(R)/US Patent 1950-03/Sep 04
                   348: EUROPEAN PATENTS 1978-2003/Aug W05
             145
                   349: PCT FULLTEXT 1979-2002/UB=20030904, UT=20030828
                   353: Ei EnCompassPat(TM) 1964-200336
       Examined 150 files
                   357: Derwent Biotech Res. 1982-2003/Sep W2
              19
                   360: Specialty Chemicals Update Program 2000/Q2
                   369: New Scientist 1994-2003/Aug W5
               2
                   370: Science 1996-1999/Jul W3
                   399: CA SEARCH(R) 1967-2003/UD=13910
                   440: Current Contents Search(R) 1990-2003/Sep 05
              99
                   444: New England Journal of Med. 1985-2003/Sep W1
               1
                   453: Drugs of the Future 1990-2002/Oct
                   455: Drug News & Perspectives_1992-2003/Aug
                   461: USP DI(R) Vol. I 1998/Q3
                   484: Periodical Abs Plustext 1986-2003/Aug W5
              22
       Examined 200 files
                   570: Gale Group MARS(R) 1984-2003/Sep 05
                   624: McGraw-Hill Publications 1985-2003/Sep 05
                   635: Business Dateline(R) 1985-2003/Sep 05
                   636: Gale Group Newsletter DB(TM) 1987-2003/Sep 05
Processing
                   654: US PAT.FULL. 1976-2003/Sep 02
            1782
       Examined 250 files
                   764: BCC Market Research 1989-2003/Sep
               1
                   765: Frost & Sullivan_1992-1999/Apr
```

50 files have one or more items; file list includes 282 files. One or more terms were invalid in one file.

```
? save temp
Temp SearchSave "TD051" stored
? RF
```

Your last SELECT statement was:

S BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)

Ref		Items	File	
N1		1782		US PAT.FULL1976-2003/Sep 02
N2		1359		PCT FULLTEXT_1979-2002/UB=20030904,UT=20030828
N3		145	348:	EUROPEAN PATENTS_1978-2003/Aug W05
N4		99		Current Contents Search(R)_1990-2003/Sep 05
N5		53		Biosis Previews(R)_1969-2003/Aug W5
N6		37	98:	General Sci Abs/Full-Text_1984-2003/Jul
N7		33		SciSearch(R) Cited Ref Sci_1990-2003/Aug W5
N8		27	73:	EMBASE_1974-2003/Aug W5
N9		25	<b>1</b> 55:	MEDLINE(R)_1966-2003/Aug W5
N10		24	50:	CAB Abstracts_1972-2003/Aug
50	files	have	one or	more items; file list includes 282 files.

- Enter P or PAGE for more -

#### ? [

Your last SELECT statement was:

S BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)

Ref	Items	File	
		<del>-</del>	
N11	22		Periodical Abs Plustext_1986-2003/Aug W5
N12	20		ELSEVIER BIOBASE_1994-2003/Aug W5
N13	19	144:	Pascal 1973-2003/Aug W4
N14	19		Derwent Biotech Res. 1982-2003/Sep W2
N15	18	94:	JICST-EPlus_1985-2003/Aug W5
N16	17		Gale Group Magazine DB(TM)_1959-2003/Aug 27
N17	14	148:	Gale Group Trade & Industry DB_1976-2003/Sep 04
N18	13		FEDRIP_2003/Jul
N19	11		TGG Health&Wellness DB(SM)_1976-2003/Aug W4
N20	10	16:	Gale Group PROMT(R)_1990-2003/Sep 05
50	files have	one or	more items; file list includes 282 files.

- Enter P or PAGE for more -

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Your last SELECT statement was:

S BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)

```
File
           Items
Ref
_ _ _
           _ _ _ _ _
                   156: ToxFile_1965-2003/Aug W5
               8
N21
                   180: Federal Register_1985-2003/Sep 05
N22
               8
                   10: AGRICOLA 70-2003/Aug
               7
N23
                   340: CLAIMS(R)/US Patent_1950-03/Sep 04
               6
N24
                   285: BioBusiness(R)_1985-1998/Aug W1
N25
               5
                   369: New Scientist 1994-2003/Aug W5
N26
               5
                   292: GEOBASE (TM) 1980-2003/Aug
N27
               4
                   399: CA SEARCH(R) 1967-2003/UD=13910
N28
                   453: Drugs of the Future_1990-2002/Oct
N29
                   35: Dissertation Abs Online_1861-2003/Aug
               3
N30
   50 files have one or more items; file list includes 282 files.
```

- Enter P or PAGE for more -

? p

Your last SELECT statement was:

S BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)

Ref	Item	s File	
N31			AGRIS_1974-2003/Aug
N32		3 636:	Gale Group Newsletter DB(TM)_1987-2003/Sep 05
N33		2 370:	Science 1996-1999/Jul W3
N34		2 461:	USP DI( $\overline{R}$ ) Vol. I_1998/Q3
N35			Gale Group MARS(R)_1984-2003/Sep 05
N36			McGraw-Hill Publications_1985-2003/Sep 05
N37		1 8:	Ei Compendex(R)_1970-2003/Aug W4
N38			Business & Industry(R)_Jul/1994-2003/Sep 05
N39		1 15:	ABI/Inform(R)_1971-2003/Sep 05 .
N40		1 20:	Dialog Global Reporter_1997-2003/Sep 06
50	files hav	e one or	more items; file list includes 282 files.

- Enter P or PAGE for more -

#### ? r

Your last SELECT statement was:

S BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)

Ref		Items	File	
N41		1	129:	PHIND(Archival)_1980-2003/Aug W5
N42		1	172:	EMBASE Alert_2003/Aug W5
N43		1	240:	PAPERCHEM 1967-2003/Aug W5
N44	•	1	353:	Ei EnCompassPat(TM)_1964-200336
N45		1	360:	Specialty Chemicals Update Program_2000/Q2
N46		1	444:	New England Journal of Med. 1985-2003/Sep W1
N47		1	455:	Drug News & Perspectives_1992-2003/Aug
N48		1	635:	Business Dateline(R) 1985-2003/Sep 05
N49		1	764:	BCC Market Research 1989-2003/Sep
N50		1	765:	Frost & Sullivan 1992-1999/Apr
5.0	files	have	one or	more items: file list includes 282 files.

- Enter P or PAGE for more -

#### ? p

Your last SELECT statement was:

S BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)

Ref		Items	File	
N51		0	2:	INSPEC_1969-2003/Aug W4
N52		0	6:	NTIS_1964-2003/Sep W1
N53		0		Gale Group F&S Index(R)_1988-2003/Sep 05
N54		0	19:	Chem.Industry Notes_1974-2003/ISS 200336
N55		0	25:	Weldasearch_1966-2002/Mar
N56		0	29:	Meteor.& Geoastro.Abs1970-2002/Jul
N57		0	31:	World Surface Coatings Abs_1976-2003/Aug
N58		0		Enviroline(R)_1975-2003/Aug
N59		0	42:	Pharmaceuticl News Idx_1974-2003/Aug W5
N60		0	48:	SPORTDiscus_1962-2003/Aug
EΛ	files	harro	one or	more items. file list includes 282 files

50 files have one or more items; file list includes 282 files.

- Enter P or PAGE for more -

? b n1:n50;exs

06sep03 10:08:14 User243004 Session D76.3

Set	Items	Description
S1	3829	BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND (DISEASE
	(	OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR NUCLEOTIDE OR PR-
	O.	TEIN OR POLYPEPTIDE OR ANTIBODY)
S2	3299	\$1/1998:2003
S3	530	S1 NOT S2
S4	448	RD (unique items)
<b>S</b> 5	50	TARGET - S3
S6	6	S5 AND (TRANSGENIC OR TRANSFORM) AND PLANT
2		

.

```
12.503 DialUnits File411
           $25.01
    $25.01
           Estimated cost File411
     $3.26 TELNET
    $28.27 Estimated cost this search
    $28.35 Estimated total session cost 12.736 DialUnits
SYSTEM:OS - DIALOG OneSearch
  File 654:US PAT.FULL. 1976-2003/Sep 02
         (c) FORMAT ONLY 2003 THE DIALOG CORP.
*File 654: US published applications now online. See HELP NEWS 654
for details. Reassignments current through April 14, 2003
  File 349:PCT FULLTEXT 1979-2002/UB=20030904,UT=20030828
         (c) 2003 WIPO/Univentio
  File 348:EUROPEAN PATENTS 1978-2003/Aug W05
         (c) 2003 European Patent Office
                                      1990-2003/Sep 05
  File 440:Current Contents Search(R)
         (c) 2003 Inst for Sci Info
  File
         5:Biosis Previews (R) 1969-2003/Aug W5
         (c) 2003 BIOSIS
  File
        98:General Sci Abs/Full-Text 1984-2003/Jul
         (c) 2003 The HW Wilson Co.
       34:SciSearch(R) Cited Ref Sci 1990-2003/Aug W5
  File
         (c) 2003 Inst for Sci Info
  File
       73:EMBASE 1974-2003/Aug W5
         (c) 2003 Elsevier Science B.V.
  File 155:MEDLINE(R) 1966-2003/Aug W5
         (c) format only 2003 The Dialog Corp.
*File 155: Medline has been reloaded and accession numbers have
changed. Please see HELP NEWS 155.
  File 50:CAB Abstracts 1972-2003/Aug
         (c) 2003 CAB International
*File 50: Truncating CC codes is recommended for full retrieval.
See Help News50 for details.
  File 484:Periodical Abs Plustext 1986-2003/Aug W5
         (c) 2003 ProOuest
*File 484: SELECT IMAGE AVAILABILITY FOR PROQUEST FILES
ENTER 'HELP PROQUEST' FOR MORE
  File 71:ELSEVIER BIOBASE 1994-2003/Aug W5
         (c) 2003 Elsevier Science B.V.
  File 144: Pascal 1973-2003/Aug W4
         (c) 2003 INIST/CNRS
                                1982-2003/Sep W2
  File 357:Derwent Biotech Res.
         (c) 2003 Thomson Derwent & ISI
*File 357: File is now current. See HELP NEWS 357.
Alert feature enhanced for multiple files, etc. See HELP ALERT.
  File 94:JICST-EPlus 1985-2003/Aug W5
         (c) 2003 Japan Science and Tech Corp (JST)
 File
       47:Gale Group Magazine DB(TM) 1959-2003/Aug 27
         (c) 2003 The Gale group
  File 148:Gale Group Trade & Industry DB 1976-2003/Sep 04
         (c) 2003 The Gale Group
*File 148: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
  File 266:FEDRIP 2003/Jul
         Comp & dist by NTIS, Intl Copyright All Rights Res
 File 149:TGG Health&Wellness DB(SM) 1976-2003/Aug W4
         (c) 2003 The Gale Group
      16:Gale Group PROMT(R) 1990-2003/Sep 05
         (c) 2003 The Gale Group
*File 16: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
 File 156:ToxFile 1965-2003/Aug W5
         (c) format only 2003 The Dialog Corporation
*File 156: ToxFile has been reloaded. Accession numbers
```

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have changed. Please see HELP NEWS 156 for details.
  File 180:Federal Register 1985-2003/Sep 05
         (c) 2003 format only The DIALOG Corp
        10:AGRICOLA 70-2003/Aug
  File
         (c) format only 2003 The Dialog Corporation
  File 340:CLAIMS(R)/US Patent 1950-03/Sep 04
         (c) 2003 IFI/CLAIMS(R)
*File 340: The Claims U.S. Patent databases have been reloaded.
 HELP NEWS340 & HELP ALERTS340 for search, display & Alert info.
  File 285:BioBusiness(R) 1985-1998/Aug W1
         (c) 1998 BIOSIS
*File 285: This file is closed (no updates)
  File 369:New Scientist 1994-2003/Aug W5
         (c) 2003 Reed Business Information Ltd.
File 292:GEOBASE(TM)
                       1980-2003/Aug
         (c) 2003 Elsevier Science Ltd.
  File 399:CA SEARCH(R) 1967-2003/UD=13910
         (c) 2003 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
Alert feature enhanced for multiple files, etc. See HELP ALERT.
  File 453:Drugs of the Future 1990-2002/Oct
         (c) 2002 Prous Science
*File 453: Updating of this file has temporarily ceased due to
a production system change.
  File
        35:Dissertation Abs Online 1861-2003/Aug
         (c) 2003 ProQuest Info&Learning
  File 203:AGRIS 1974-2003/Aug
         Dist by NAL, Intl Copr. All rights reserved
  File 636:Gale Group Newsletter DB(TM) 1987-2003/Sep 05
         (c) 2003 The Gale Group
  File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
*File 370: This file is closed (no updates). Use File 47 for more current
information.
  File 461:USP DI(R) Vol. I 1998/03
         (c) 1998 U.S. Pharmacopeial Conv., Inc.
*File 461: File is not currently updating due to change in ownership.
                              1984-2003/Sep 05
  File 570:Gale Group MARS(R)
         (c) 2003 The Gale Group
  File 624:McGraw-Hill Publications 1985-2003/Sep 05
         (c) 2003 McGraw-Hill Co. Inc
*File 624: Homeland Security & Defense and 9 Platt energy journals added
Please see HELP NEWS624 for more
  File
         8:Ei Compendex(R)
                           1970-2003/Aug W4
         (c) 2003 Elsevier Eng. Info. Inc.
                                  Jul/1994-2003/Sep 05
  File
         9:Business & Industry(R)
         (c) 2003 Resp. DB Svcs.
  File
       15:ABI/Inform(R)
                         1971-2003/Sep 05
         (c) 2003 ProQuest Info&Learning
*File 15: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
 File 20:Dialog Global Reporter 1997-2003/Sep 06
         (c) 2003 The Dialog Corp.
  File 129:PHIND(Archival)
                           1980-2003/Aug W5
         (c) 2003 PJB Publications, Ltd.
*File 129: Genomika will cease to exist as an independent newsletter.
Please see HELP NEWS 129, for details.
 File 172:EMBASE Alert 2003/Aug W5
         (c) 2003 Elsevier Science B.V.
 File 240: PAPERCHEM 1967-2003/Aug W5
         (c) 2003 Elsevier Eng. Info. Inc.
 File 353:Ei EnCompassPat(TM) 1964-200336
         (c) 2003 Elsevier Eng. Info. Inc.
*File 353: Ei EnCompassPat/Ei EnCompassLit combined usage is
```

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limited to 2 hrs/yr.
  File 360:Specialty Chemicals Update Program 2000/Q2
         (c) 2000 SRI International
*File 360: Full fmts cost $85.00 each for TYPEs, DISPLAYS, & PRINTs.
Fmt 7 costs $50.00. SCUP subscribers - use F960.Updating suspended.
  File 444: New England Journal of Med. 1985-2003/Sep W1
         (c) 2003 Mass. Med. Soc.
  File 455:Drug News & Perspectives 1992-2003/Aug
         (c) 2003 Prous Science
  File 635:Business Dateline(R) 1985-2003/Sep 05
         (c) 2003 ProQuest Info&Learning
  File 764:BCC Market Research 1989-2003/Sep
         (c) 2003 Business Communication Co.
*File 764: KWIC costs $3.30 in File 764.
  File 765:Frost & Sullivan 1992-1999/Apr
         (c) 1999 Frost & Sullivan Inc.
*File 765: File no longer updating; use File 767.
KWIC costs $3.30 in File 765.
      Set Items Description
      --- ---- -------
Executing TD051
Hilight option is not available in file(s) 399
HILIGHT set on as '%'
Processing
Processing
Processing
Processing
Processing
Processed 10 of 50 files ...
Processing
Processing
Processed 20 of 50 files ...
Processing
Processing
Processed 30 of 50 files ...
Processing
Processed 40 of 50 files ...
Completed processing all files
        5974485 BACTERI?
         110270 PHEROMONE
         232742 LACTONE
        14727644 PLANT?
        13441009 DISEASE
          616672 PATHOGEN
         6394720 GENE
         4928499 DNA
         1252372 NUCLEIC
         1545912 NUCLEOTIDE
         9636874 PROTEIN
         581532 POLYPEPTIDE
         2564245 ANTIBODY
          3829 BACTERI? AND (PHEROMONE OR LACTONE) AND PLANT? AND
                 (DISEASE OR PATHOGEN) AND (GENE OR DNA OR NUCLEIC OR
                 NUCLEOTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY)
? s s1/1998:2003
Processing
Processed 10 of 50 files ...
Processing
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>Year ranges not supported in one or more files
Processed 20 of 50 files ...
Processing
```

that allow binding of the %antibody% to OPG; and detecting the bound %antibody%.

- 42. A method to assess the ability of a candidate substance to bind to OPG...
- ...of regulating the levels of OPG in an animal comprising modifying the animal with a %nucleic% acid encoding OPG.
  - 44. The method of Claim 43 wherein the %nucleic% acid promotes an increase in the tissue level of OPG.
  - 45. The method of Claim...
- ...A method of treating a bone disorder comprising administering a therapeutically effective amount of the %polypeptide% of Claim 19.
  - 50. The method of Claim 49 wherein the \*polypeptide\* is human OPG.
  - 51. The method of Claim 49 wherein the bone disorder is excessive...
- ...51 wherein the bone disorder is selected from the group consisting of osteoporosis, Paget's %disease% of bone, hypercalcemia, hyperparathyroidism, steroid-induced osteopenia, bone loss due to rheumatoid arthritis, bone loss...
- ...members, IL-1 inhibitors, TNF(alpha) inhibitors, parathyroid hormone and analogs thereof, parathyroid hormone related %protein% and analogs thereof, E series prostaglandins, bisphosphonates, and bone-enhancing minerals.
  - 54. An osteoprotegerin multimer...

4/8,K/343 (Item 1 from file: 440)
DIALOG(R)File 440:(c) 2003 Inst for Sci Info. All rts. reserv.

04615139 References: 63

TITLE: A SMALL DIFFUSIBLE SIGNAL MOLECULE IS RESPONSIBLE FOR THE GLOBAL CONTROL OF VIRULENCE AND EXOENZYME PRODUCTION IN THE %PLANT% %PATHOGEN% ERWINIA-CAROTOVORA (Abstract Available)

1993

GENUINE ARTICLE#: LF938

JOURNAL SUBJECT CATEGORY: MOLECULAR BIOLOGY & GENETICS

DESCRIPTORS--Author Keywords: AUTOINDUCER; CELL DENSITY SIGNAL;

EXTRACELLULAR COMPLEMENTATION; GLOBAL REGULATION; PATHOGENICITY

IDENTIFIERS--KeyWords Plus: SOFT-ROT ERWINIAS; ESCHERICHIA-COLI; SUBSP

CAROTOVORA; VIBRIO-FISCHERI; %BACTERIAL% BIOLUMINESCENCE;

ENZYME-PRODUCTION; CHRYSANTHEMI; %GENE; %CLONING; IDENTIFICATION

...TITLE: SIGNAL MOLECULE IS RESPONSIBLE FOR THE GLOBAL CONTROL OF VIRULENCE AND EXOENZYME PRODUCTION IN THE %PLANT% %PATHOGEN% ERWINIA-CAROTOVORA

ABSTRACT: Virulence of the %plant% %pathogen% Erwinia carotovora subsp. carotovora is dependent on the production and secretion of a complex arsenal of %plant% cell wall-degrading enzymes. Production of these exoenzymes is controlled by a global regulatory mechanism...
...loci, expI, show a pleiotropic defect in the growth phase-dependent transcriptional activation of exoenzyme %gene% expression. The expI %gene% encodes a 26 kDa %polypeptide% that is structurally and functionally related to the luxI %gene% product of Vibrio fischeri. Functional similarity of expI and luxI has been demonstrated by reciprocal...

...phase-dependent manner by directing the synthesis of the diffusible autoinducer, N-(3-oxohexcanoyl) homoserine %lactone%. E.c. subsp. carotovora expI+ strains or Escherichia coli harboring the cloned expI %gene% excrete a small diffusible signal molecule that complements the expI mutation of Erwinia as well...

...V.fischeri. This extracellular complementation can also be achieved by

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003 STN Operating Hours Plus Help Desk Availability

NEWS HOURS STN Operating Hours Plus Help NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 16:40:27 ON 27 AUG 2003

=> file caplus biosis agricola medline europatfull patents FILE 'ENCOMPPAT' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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FILE 'BIOSIS' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'AGRICOLA' ENTERED AT 16:41:14 ON 27 AUG 2003

FILE 'MEDLINE' ENTERED AT 16:41:14 ON 27 AUG 2003

FILE 'EUROPATFULL' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (c) 2003 WILA Verlag Muenchen (WILA)

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FILE 'DPCI' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

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FILE 'PATDPA' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (c) 2003 Deutsches Patent- und Markenamt / FIZ Karlsruhe (DPMA/FIZ KA)

FILE 'PATDPAFULL' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (C) 2003 DPMA

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FILE 'PATOSEP' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (c) 2003 WILA Verlag Muenchen (WILA)

FILE 'PATOSWO' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (c) 2003 WILA Verlag Muenchen (WILA)

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FILE 'PCTGEN' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (C) 2003 WIPO

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FILE 'RDISCLOSURE' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (C) 2003 Kenneth Mason Publications Ltd.

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FILE 'TULSA2' ENTERED AT 16:41:14 ON 27 AUG 2003

COPYRIGHT (C) 2003 The University of Tulsa (UTULSA) FILE 'USPATFULL' ENTERED AT 16:41:14 ON 27 AUG 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'USPAT2' ENTERED AT 16:41:14 ON 27 AUG 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'WPIDS' ENTERED AT 16:41:14 ON 27 AUG 2003 COPYRIGHT (C) 2003 THOMSON DERWENT FILE 'WPINDEX' ACCESS NOT AUTHORIZED => s (yenI or cviI or carI or lux or traI or lasI or vsmI) (2a) (gene or nucleic or DNA or nucleotide or RNA or protein) 3 FILES SEARCHED.:. 6 FILES SEARCHED... 9 FILES SEARCHED... 20 FILES SEARCHED... 24 FILES SEARCHED... 32 FILES SEARCHED... 2309 (YENI OR CVII OR CARI OR LUX OR TRAI OR LASI OR VSMI) (2A) (GENE OR NUCLEIC OR DNA OR NUCLEOTIDE OR RNA OR PROTEIN) => s l1 and homoserine (w) lactone and plant? 15 FILES SEARCHED... 83 L1 AND HOMOSERINE (W) LACTONE AND PLANT? => s 12 not PY>1998 10 FILES SEARCHED... 22 FILES SEARCHED... 9 L2 NOT PY>1998 => d 13 1-9 ab ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN L3Many bacteria, including several pathogens of plants and humans, AB use a pheromone called an autoinducer to regulate gene expression in a cell d.-dependent manner. Agrobacterium autoinducer [AAI, N-(3-oxo-octanoyl)-L-homoserine lactone] of A. tumefaciens is synthesized by the TraI protein, which is encoded by the tumor-inducing plasmid. Purified hexahistidinyl-TraI (H6-TraI) used S-adenosylmethionine to make the homoserine lactone moiety of AAI, but did not use related compds. H6-TraI used 3-oxo-octanoyl-acyl carrier protein to make the 3-oxo-octanoyl moiety of AAI, but did not use 3-oxo-octanoyl-CoA. These results demonstrate the enzymic synthesis of an autoinducer through the use of purified substrates. ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN L3AB Ti plasmids of Agrobacterium tumefaciens, in addn. to transferring oncogenic DNA to the nuclei of infected plant cells, can conjugally transfer between agrobacteria. Conjugation of wide-host-range octopine-type Ti plasmids requires a tumor-released arginine deriv. called octopine. Octopine stimulates expression of the traR gene, whose product directly activates other tra genes in the presence of an acylated homoserine lactone called Agrobacterium autoinducer (AAI). We have localized the transcription starts of three tra promoters and find conserved elements (tra boxes) at virtually identical positions upstream of each promoter. Disruption of these tra boxes abolished induction of each promoter. Deletion anal. of the traI promoter indicates that tra boxes are the only upstream elements required for transcriptional

activation. Since Ti plasmid donor cells both produce and respond to AAI, we tested whether expression of tra promoters was enhanced by high concns.

of bacteria. Both tra gene expression and conjugation itself were strongly stimulated either by high donor densities or by exogenous AAI.

- L3 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

  AB In E. carotovora both N-(3-oxohexanoyl)-L-homoserine
  lactone (I), a small diffusible signal mol., and carbapenem prodn.
  were shown to be cell d. dependent, with antibiotic synthesis only
  commencing once I reached a crit. level. CarI, a luxI homolog which
  directs the biosynthesis of I, was identified in E. carotovora. CarI, and
  consequently carbapenem biosynthesis, were autoinducible via I.
- L3 ANSWER 4 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
- L3 ANSWER 5 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

  (2003) on STN
- Ti plasmids of Agrobacterium tumefaciens, in addition to transferring AR oncogenic DNA to the nuclei of infected plant cells, can conjugally transfer between agrobacteria. Conjugation of wide-host-range octopine-type Ti plasmids requires a tumor-released arginine derivative called octopine. Octopine stimulates expression of the traR gene, whose product directly activates other tra genes in the presence of an acylated homoserine lactone called Agrobacterium autoinducer (AAI). We have localized the transcription starts of three tra promoters and find conserved elements (tra boxes) at virtually identical positions upstream of each promoter. Disruption of these tra boxes abolished induction of each promoter. Deletion analysis of the traI promoter indicates that tra boxes are the only upstream elements required for transcriptional activation. Since Ti plasmid donor cells both produce and respond to AAI, we tested whether expression of tra promoters was enhanced by high concentrations of bacteria. Both tra gene expression and conjugation itself were strongly stimulated either by high donor densities or by exogenous AAI.
- L3 ANSWER 6 OF 9 MEDLINE on STN
- Conjugal transfer of Ti plasmids from Agrobacterium donors to bacterial AB recipients is controlled by two types of diffusible signal molecules. Induction is mediated by novel compounds, called opines, that are secreted by crown gall tumours. These neoplasias result from infection of susceptible plants by virulent agrobacteria. The second diffusible signal, called conjugation factor, is synthesized by the donor bacteria themselves. Production of this factor is induced by the opine. Here we show that conjugation is regulated directly by a transcriptional activator, TraR, which requires conjugation factor as a coinducer to activate tra gene expression. TraR is a homologue of LuxR, the lux gene activator from Vibrio fischeri which also requires an endogenously synthesized diffusible coinducer. The two regulatory systems are related; the two activator proteins show amino-acid sequence similarities and the lux system cofactor, autoinducer, will substitute for conjugation factor in the TraR-dependent activation of Ti plasmid tra genes.
- L3 ANSWER 7 OF 9 USPATFULL on STN
- The invention provides assays, kits and bacteria useful for detection of autoinducers. In a preferred aspect, the assay comprises 1) contacting a test sample suspected of containing an autoinducer with bacteria of the invention that are capable of producing an elevated amount of light in the presence of an exogenous autoinducer and that has at least two distinct genetic alterations that can each inhibit production of endogenous autoinducers; and 2) measuring the production of light. The

sample will test positive for the presence of an autoinducer if a greater amount of light is produced relative to a control. The assays and kits have a variety of applications including use as an in vitro diagnostic for animal and plant disorders.

- L3 ANSWER 8 OF 9 USPATFULL on STN
- AB Autoinducer molecules, e.g., N-(3-oxododecanoyl)homoserine
  lactone, for Pseudomonas aeruginosa are described. The molecules
  regulate gene expression in the bacterium. Therapeutic compositions and
  therapeutic methods involving analogs and/or inhibitors of the
  autoinducer molecules also are described. The molecules are useful for
  treating or preventing infection by Pseudomonas aeruginosa.
- L3 ANSWER 9 OF 9 USPATFULL on STN
- The invention relates to an expression vector system based on the regulation of bacterial luminescence (the lux gene system). The invention further relates to the construction of a precisely regulatable expression vector system which comprises a complete luxR gene in combination with an inactivated luxI gene. If the system is turned off, no significant transcription occurs of any cloned gene product when used in combination with the regulatory scheme of the invention as is demonstrated by using the bacteriophage .lambda. lysis genes. The induction of transcription relies on the addition of exogenous autoinducer which is both inexpensive and easy-to-use and which is required in only minute amounts.

#### => d 13 1-9

- L3 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1996:363087 CAPLUS
- DN 125:52150
- TI Enzymic synthesis of a quorum-sensing autoinducer through use of defined substrates
- AU More, Margret I.; Finger, L. David; Stryker, Joel L.; Fuqua, Clay; Eberhard, Anatol; Winans, Stephen C.
- CS Section Microbiol., Cornell Univ., Ithaca, NY, 14853, USA
- SO Science (Washington, D. C.) (1996), 272(5268), 1655-1658 CODEN: SCIEAS; ISSN: 0036-8075
- PB American Association for the Advancement of Science
- DT Journal
- LA English
- L3 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1996:36143 CAPLUS
- DN 124:167246
- TI Conserved cis-acting promoter elements are required for density-dependent transcription of Agrobacterium tumefaciens conjugal transfer genes
- AU Fuqua, Clay; Winans, Stephen C.
- CS Dep. Biol., Trinity Univ., San Antonio, TX, 78212, USA
- SO Journal of Bacteriology (1996), 178(2), 435-40 CODEN: JOBAAY; ISSN: 0021-9193
- PB American Society for Microbiology
- DT Journal
- LA English
- L3 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1995:404830 CAPLUS
- DN 122:209428
- TI Small molecule mediated autoinduction of antibiotic biosynthesis in the plant pathogen Erwinia carotovora
- AU Chan, Pan F.; Bainton, Nigel J.; Daykin, Mavis M.; Winson, Michael K.; Chhabra, Siri R.; Stewart, Gordon S. A. B.; Salmond, George P. C.; Bycroft, Barrie W.; Williams, Paul

- CS Department of Pharmaceutical Sciences, Univ. of Nottingham, Nottingham, NG7 2RD, UK
- SO Biochemical Society Transactions (1995), 23(1), 127S CODEN: BCSTB5; ISSN: 0300-5127
- PB Portland Press
- DT Journal
- LA English
- L3 ANSWER 4 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
- AN 1998:54922 AGRICOLA
- DN IND20632928
- TI N-acyl-homoserine lactone-mediated gene regulation in biological control by fluorescent pseudomonads: current knowledge and future work.
- AU Pierson, L.S. III; Wood, D.W.; Pierson, E.A.; Chancey, S.T.
- AV DNAL (SB599.E97)
- SO European journal of plant pathology, Jan 1998. Vol. 104, No. 1. p. 1-9 Publisher: Dordrecht; Boston: Kluwer Academic Publishers, c1994-CODEN: EPLPEH; ISSN: 0929-1873
- NTE Includes references
- CY Netherlands
- DT Article; Law
- FS Non-U.S. Imprint other than FAO
- LA English
- L3 ANSWER 5 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
- AN 96:19227 AGRICOLA
- DN IND20504883
- TI Conserved cis-acting promoter elements are required for density-dependent transcription of Agrobacterium tumefaciens conjugal transfer genes.
- AU Fuqua, C.; Winans, S.C.
- CS Trinity University, San Antonio, TX.
- AV DNAL (448.3 J82)
- Journal of bacteriology, Jan 1996. Vol. 178, No. 2. p. 435-440 Publisher: Washington, D.C.: American Society for Microbiology. CODEN: JOBAAY; ISSN: 0021-9193
- NTE Includes references
- CY District of Columbia; United States
- DT Article
- FS U.S. Imprints not USDA, Experiment or Extension
- LA English
- L3 ANSWER 6 OF 9 MEDLINE on STN
- AN 93218718 MEDLINE
- DN 93218718 PubMed ID: 8464476
- TI Conjugation factor of Agrobacterium tumefaciens regulates Ti plasmid transfer by autoinduction.
- AU Piper K R; Beck von Bodman S; Farrand S K
- CS Department of Plant Pathology, University of Illinois, Urbana/Champaign 61801.
- SO NATURE, (1993 Apr 1) 362 (6419) 448-50. Journal code: 0410462. ISSN: 0028-0836.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- OS GENBANK-Z15003
- EM 199304

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Entered STN: 19930521
 ED
      Last Updated on STN: 20021008
      Entered Medline: 19930430
      ANSWER 7 OF 9 USPATFULL on STN
 L3
 AN
        1998:61418 USPATFULL
        Assays, test kits and bacteria for detection of autoinducers
 TI
        Dunlap, Paul Vernon, Woods Hole, MA, United States
 IN
        Woods Hole Oceanographic Institution, Woods Hole, MA, United States
 PA
        (U.S. corporation)
                                 19980602
        US 5759798
 PΙ
                                 19951208 (8)
        US 1995-569973
 ΑI
 DT
        Utility
 FS
        Granted
 LN.CNT 742
        INCLM: 435/029.000
- INCL
        INCLS: 435/006.000
 NCL
        NCLM:
               435/029.000
        NCLS:
               435/006.000
 IC
        [6]
        ICM: C12Q001-02
 EXF
        435/29; 435/6
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 8 OF 9 USPATFULL on STN
 L3
        97:1591 USPATFULL
 AN
        Autoinducer molecule
 ΤI
        Pearson, James P., Iowa City, IA, United States
 IN
        Gray, Kendall M., Iowa City, IA, United States
        Passador, Luciano, Rochester, NY, United States
        Tucker, Kenneth D., Germantown, MD, United States
        Eberhard, Anatol, Brooktondale, NY, United States
        Iglewski, Barbara H., Fairport, NY, United States
        Greenberg, Everett P., Iowa City, IA, United States
        The University of Iowa Research Foundation, Iowa City, IA, United States
 PA
        (U.S. corporation)
                                 19970107
 PΙ
        US 5591872
                                 19930809 (8)
        US 1993-104487
 AΙ
        Utility
 DT
        Granted
 FS
 LN.CNT 1006
        INCLM: 549/321.000
 INCL
        INCLS: 435/004.000
 NCL
        NCLM:
               549/321.000
        NCLS: 435/004.000
        [6]
 TC
        ICM: C07D307-33
 EXF
        549/321; 435/4
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 9 OF 9 USPATFULL on STN
 L3
 AN
        93:22604 USPATFULL
        Precisely regulated expression of deleterious genes
 ΤI
        Baldwin, Thomas O., Bryan, TX, United States
 IN
        Devine, Jerry H., College Station, TX, United States
        Shadel, Gerald S., College Station, TX, United States
        The Texas A&M University System, College Station, TX, United States
 PA
        (U.S. corporation)
        US 5196318
                                 19930323
 PΙ
                                 19900626 (7)
        US 1990-544268
 AΙ
 DT
        Utility
        Granted
 FS
 LN.CNT 1170
        INCLM: 435/069.100
 INCL
```

INCLS: 435/172.300; 435/320.100; 536/027.000

NCL NCLM: 435/069.100

NCLS: 435/091.410; 435/320.100; 435/488.000; 536/023.700

IC [5]

ICM: C12P021-00

ICS: C12N015-09; C12N015-70; C12N015-31

EXF 435/320.1; 435/172.3; 435/69.1; 536/27

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 16:40:27 ON 27 AUG 2003)

FILE 'CAPLUS, BIOSIS, AGRICOLA, MEDLINE, EUROPATFULL, CAOLD, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT2, FSTA, IFIPAT, INPADOC, JAPIO, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAFULL, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PCTGEN, PIRA, RAPRA, RDISCLOSURE, SYNTHLINE, ..' ENTERED AT 16:41:14 ON 27 AUG 2003

L1 2309 S (YENI OR CVII OR CARI OR LUX OR TRAI OR LASI OR VSMI) (2A) (G

L2 83 S L1 AND HOMOSERINE (W) LACTONE AND PLANT?

L3 9 S L2 NOT PY>1998

# WEST

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L1: Entry 11 of 12

File: DWPI

Feb 27, 1997

DERWENT-ACC-NO: 1997-134163

DERWENT-WEEK: 199713

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TITLE: Inhibiting signal mols. involved in plant-microbial pathogen interaction - using antibodies or related cpds. against signal mol., also derived pathogen resistant plants

INVENTOR: DUERING, K

PATENT-ASSIGNEE:

ASSIGNEE

CODE

DUERING K

DUERI

PRIORITY-DATA: 1995DE-1048301 (December 22, 1995)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

DE 19548301 C1

February 27, 1997

003

A01H005/00

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

DE 19548301C1

December 22, 1995

1995DE-1048301

INT-CL (IPC): A01  $\underline{\text{H}}$  1/06; A01  $\underline{\text{H}}$  5/00; A01  $\underline{\text{N}}$  63/00; A61  $\underline{\text{K}}$  39/395; C07  $\underline{\text{K}}$  16/12; C12  $\underline{\text{N}}$  15/82

ABSTRACTED-PUB-NO: DE 19548301C

BASIC-ABSTRACT:

Inhibition of signal mol. (A) of pathogens in plant-microbe interactions uses binding or catalytic antibodies (Ab) or Ab-like proteins.

Also claimed is pathogen-resistant transgenic plant contg. the genetic information (B) for producing Ab or Ab-like proteins directed against (A) or their structural features.

USE - The Ab neutralise (A) which are inducers of pathogenic factors in bacteria and are partic. used to combat bacteria that use <a href="https://docs.physics.org/length="https://docs.physics.physics.org/length="https://docs.physi

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: INHIBIT SIGNAL MOLECULAR PLANT MICROBE PATHOGEN INTERACT ANTIBODY RELATED COMPOUND SIGNAL MOLECULAR DERIVATIVE PATHOGEN RESISTANCE PLANT

DERWENT-CLASS: B04 C06 D16 P13

CPI-CODES: B04-G01; C04-G01; B04-N04; C04-N04; B14-A01; C14-A01; D05-H11A1; D05-H11A2;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*
Fragmentation Code
M423 M710 M720 M903 N104 N135 N137 P220 Q233 V400
V404 V406 V600 V611

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-043503 Non-CPI Secondary Accession Numbers: N1997-110556 TITLE: Inhibiting signal mols. involved in plant-microbial pathogen interaction - using antibodies or related cpds. against signal mol., also derived pathogen resistant plants

INVENTOR: DUERING, K

PRIORITY-DATA: 1995DE-1048301 (December 22, 1995)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 DE 19548301 C1
 February 27, 1997
 003
 A01H005/00

INT-CL (IPC): A01  $\underline{\text{H}}$  1/06; A01  $\underline{\text{H}}$  5/00; A01  $\underline{\text{N}}$  63/00; A61  $\underline{\text{K}}$  39/395; C07  $\underline{\text{K}}$  16/12; C12  $\underline{\text{N}}$  15/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
mage									

12. Document ID: US 6555356 B2 WO 9629392 A1 AU 9649996 A EP 815201 A1 NZ 303630 A BR 9607661 A JP 11502108 W AU 708962 B KR 98703211 A US 20020037578 A1 CN 1185173 A

L1: Entry 12 of 12

File: DWPI

Apr 29, 2003

DERWENT-ACC-NO: 1996-443169

DERWENT-WEEK: 200331

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TITLE: Inhibiting microbial processes regulated by <a href="https://homoserine.nctione.com/homoserine.com/homos

INVENTOR: DE NYS, P C; GIVSKOV, M ; GRAM, L ; KJELLEBERG, S ; MANEFIELD, M ; MAXIMILIEN, R ; STEINBERG, P ; CANISIUS DE NYS, P ; MAXIMILLIEN, R ; STEINBERG, P D

PRIORITY-DATA: 1995AU-0001912 (March 23, 1995)

PATENT-FAMILY:

PUB-NO ·	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6555356 B2	April 29, 2003		000	C12N001/38
WO 9629392 A1	September 26, 1996	E	029	C12N001/20
AU 9649996 A	October 8, 1996		000	C12N001/20
EP 815201 A1	January 7, 1998	E	000	C12N001/20
NZ 303630 A	January 26, 1998		000	C12N009/99
BR 9607661 A	June 16, 1998		000	C12N001/20
JP 11502108 W	February 23, 1999		031	C12N001/20
AU 708962 B	August 19, 1999		000	C12N001/20
KR 98703211 A	October 15, 1998		000	C12N001/20
US 20020037578 A1	March 28, 2002		000	C12N001/12
CN 1185173 A	June 17, 1998		000	C12N001/20

INT-CL (IPC): C12 N 1/12; C12 N 1/20; C12 N 1/38; C12 N 9/99; C12 N 1/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWWC D	)rawu
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## Search Results - Record(s) 1 through 12 of 12 returned.

1. Document ID: WO 2003039529 A1 US 20030105143 A1

L1: Entry 1 of 12

File: DWPI

May 15, 2003

DERWENT-ACC-NO: 2003-523075

DERWENT-WEEK: 200349

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TITLE: Use of 1,2-acylhydrazine derivatives in regulation of the microbial quorum sensing system for treating bacterial diseases and inhibiting biofilms on e.g. medical articles and devices

INVENTOR: AMMENDOLA, A; KRAMER, B; SAEB, W

PRIORITY-DATA: 2001WO-EP12875 (November 7, 2001)

PATENT-FAMILY:

PUB-DATE LANGUAGE **PAGES** MAIN-IPC PUB-NO 053 A61K031/175 WO 2003039529 A1 May 15, 2003 000 June 5, 2003 A61K031/44 US 20030105143 A1

INT-CL (IPC): A61 K 6/00; A61 K 7/00; A61 K 31/13; A61 K 31/137; A61 K 31/175; A61 K 31/381; A61 K 31/40; A61 K 31/4178 ; A61 K 31/44; A61 K 31/4436; A61 K 31/444; A61 K 31/445; A61 K 31/4535; A61 P 31/00

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims Image

2. Document ID: WO 2003039549 A2

L1: Entry 2 of 12

File: DWPI

May 15, 2003

DERWENT-ACC-NO: 2003-513512

DERWENT-WEEK: 200349

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Use of amide, carbazide, hydrazide, urea and guanidine derivatives for the

regulation of the quorum sensing system of microorganisms

INVENTOR: AMMENDOLA, A; KRAMER, B; SAEB, W

PRIORITY-DATA: 2002US-0094301 (March 8, 2002), 2001WO-EP12875 (November 7, 2001)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE **PAGES** MAIN-IPC 051 May 15, 2003 Ε A61K031/505 WO 2003039549 A2

INT-CL (IPC): A61 K 31/38; A61 K 31/415; A61 K 31/42; A61 K 31/435; A61 K 31/44; A61 K

31/505; A61 P 31/04; C07 D 231/40 ; C07 D 307/68; C07 D 333/38; C07 D 409/12

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Desc Image

3. Document ID: WO 200261099 A1

L1: Entry 3 of 12

File: DWPI

Aug 8, 2002

DERWENT-ACC-NO: 2002-619257

DERWENT-WEEK: 200266

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Quenching quorum-sensing of plant pathogenic bacteria by transforming the plant with the aiiA gene or its functional fragment or modification, useful for conferring a broad spectrum of resistance to microbial infections

INVENTOR: DONG, Y; XU, J; ZHANG, L; ZHANG, X

PRIORITY-DATA: 2001WO-SG00012 (January 29, 2001)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

WO 200261099 A1

August 8, 2002

E

038

C12N015/82

INT-CL (IPC): C07 K 14/32; C12 N 15/82

Full Title Citation Front Review Classification Date Reference Sequences Attachments Image

KWMC - Draww Desc

4. Document ID: EP 1232271 A2 WO 200136460 A2 AU 200117230 A

L1: Entry 4 of 12

File: DWPI

Aug 21, 2002

DERWENT-ACC-NO: 2001-343798

DERWENT-WEEK: 200262

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TITLE: New transcriptional activator, useful for controlling gene expression, particularly in gene therapy, comprises fusion of DNA-binding and regulatory domains, plus activator of eukaryotic transcription

INVENTOR: CORTESE, R; DE FRANCESCO, R; NEDDERMANN, P

PRIORITY-DATA: 1999GB-0027191 (November 17, 1999)

PATENT-FAMILY:

PUB-NO PUB-DATE MAIN-IPC LANGUAGE PAGES EP 1232271 A2 August 21, 2002 E 000 C12N015/62 May 25, 2001 E ' 064 C07K014/00 WO 200136460 A2 C07K014/00 AU 200117230 A May 30, 2001 000

INT-CL (IPC):  $\underline{\text{C07}}$   $\underline{\text{D}}$   $\underline{307/33}$ ;  $\underline{\text{C07}}$   $\underline{\text{K}}$   $\underline{14/00}$ ;  $\underline{\text{C07}}$   $\underline{\text{K}}$   $\underline{14/035}$ ;  $\underline{\text{C07}}$   $\underline{\text{K}}$   $\underline{14/195}$ ;  $\underline{\text{C07}}$   $\underline{\text{K}}$   $\underline{14/28}$ ;  $\underline{\text{C07}}$   $\underline{\text{K}}$   $\underline{14/47}$ ;  $\underline{\text{C07}}$   $\underline{\text{K}}$   $\underline{19/00}$ ;  $\underline{\text{C12}}$   $\underline{\text{N}}$   $\underline{15/12}$  ;  $\underline{\text{C12}}$   $\underline{\text{N}}$   $\underline{15/31}$ ;  $\underline{\text{C12}}$   $\underline{\text{N}}$   $\underline{15/38}$ ;  $\underline{\text{C12}}$   $\underline{\text{N}}$   $\underline{15/62}$ ;  $\underline{\text{C12}}$   $\underline{\text{N}}$   $\underline{15/62}$ ;  $\underline{\text{C12}}$   $\underline{\text{N}}$ 

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC Draw, Desc

5. Document ID: JP 2001106608 A

L1: Entry 5 of 12

File: DWPI

Apr 17, 2001

DERWENT-ACC-NO: 2001-435837

DERWENT-WEEK: 200147

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TITLE: Plant growth stimulant or promoting adjuvant contains polysaccharide obtained

from culturing of microorganism belonging to Klebsiella genus

PRIORITY-DATA: 1999JP-0320043 (October 6, 1999)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC
JP 2001106608 A April 17, 2001 008 A01N063/02

INT-CL (IPC):  $\underline{A01} \ \underline{N} \ \underline{63}/\underline{02}$ 

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMMC | Draw Desc

6. Document ID: JP 2003504032 W WO 200102593 A2 AU 200060718 A EP 1190079 A2 US 6518066 B1

L1: Entry 6 of 12

File: DWPI

Feb 4, 2003

DERWENT-ACC-NO: 2001-091806

DERWENT-WEEK: 200320

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TITLE: Polynucleotide that incorporates elements, e.g. promoter comprising an AHL (acetylated <u>homoserine lactone</u>)-response element, of a bacterial quorum sensing system, useful for modulating gene expression in a wide variety of <u>plants</u> and animals

INVENTOR: ADAMS, T; ANDERSON, J C; CROSSLAND, L D; GAVRIAS, V; MCBRIDE, K; MILLER, P C; OULMASSOV, T N; ADAMS, T H; MCBRIDE, K E; QUROLLO, B A

PRIORITY-DATA: 2000US-195690P (April 7, 2000), 1999US-148441P (July 1, 1999), 2000US-177578P (January 22, 2000), 2000US-0608958 (June 30, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003504032 W	February 4, 2003		151	C12N015/09
WO 200102593 A2	January 11, 2001	E	121	C12N015/82
AU 200060718 A	January 22, 2001		000	C12N015/82
EP 1190079 A2	March 27, 2002	E	000	C12N015/82
US 6518066 B1	February 11, 2003		000	C12N015/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image	-								

KMMC Draw. Desc

7. Document ID: JP 2000069985 A

L1: Entry 7 of 12

File: DWPI

.Mar 7, 2000

DERWENT-ACC-NO: 2000-368753

DERWENT-WEEK: 200051

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TITLE: Manufacture of plant growth promoter useful as plant antibiotic with excellent growth promotion effects - involves treating at least one part of a culture of a

specific strain of microorganism under stress-load conditions

PRIORITY-DATA: 1998JP-0261026 (September 1, 1998)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 2000069985 A

March 7, 2000

014

C12P007/26

INT-CL (IPC):  $\underline{A01}$   $\underline{N}$   $\underline{35/04}$ ;  $\underline{A01}$   $\underline{N}$   $\underline{43/08}$ ;  $\underline{A01}$   $\underline{N}$   $\underline{43/36}$ ;  $\underline{A01}$   $\underline{N}$   $\underline{63/00}$ ;  $\underline{A01}$   $\underline{N}$   $\underline{63/02}$ ;  $\underline{C07}$   $\underline{D}$   $\underline{207/34}$ ;  $\underline{C07}$   $\underline{D}$   $\underline{307/33}$ ;  $\underline{C12}$   $\underline{P}$   $\underline{7/26}$ ;  $\underline{C12}$   $\underline{P}$   $\underline{17/04}$ ;  $\underline{C12}$   $\underline{P}$   $\underline{17/10}$ ;  $\underline{C12}$   $\underline{R}$   $\underline{1:39}$ ;  $\underline{C12}$   $\underline{R}$   $\underline{1:39}$ ;  $\underline{C12}$   $\underline{R}$   $\underline{1:39}$ ;

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMMC Draws Desc

8. Document ID: JP 2002522079 W WO 200009704 A1 AU 9953796 A EP 1104472 A1

L1: Entry 8 of 12

File: DWPI

Jul 23, 2002

DERWENT-ACC-NO: 2000-224341

DERWENT-WEEK: 200263

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TITLE: Inducing target gene expression in <u>plants</u> such as melons, mangoes, soybean, via a gene switch operably linked to a foreign gene

a gene pareon operably ramion to a property

INVENTOR: FRAY, R G; JEPSON, I ; MARTINEZ, A

PRIORITY-DATA: 1998GB-0017704 (August 13, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2002522079 W	July 23, 2002		080	C12N015/09
WO 200009704 A1	February 24, 2000	E	078	C12N015/52
AU 9953796 A	March 6, 2000		000	C12N015/52
EP 1104472 A1	June 6, 2001	E	000	C12N015/52

INT-CL (IPC): A01  $\underline{H}$  5/00; C12  $\underline{N}$  5/10; C12  $\underline{N}$  15/09; C12  $\underline{N}$  15/52; C12  $\underline{N}$  15/82; C12  $\underline{Q}$  1/02; C12  $\underline{Q}$  1/68; C12  $\underline{N}$  5/10; C12  $\underline{Q}$  1/02; C12  $\underline{R}$  1:91; C12  $\underline{R}$  1:91

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawi Desc
Clip Img	Image										

# 9. Document ID: WO 200009696 A1 EP 1105491 A1 AU 9953795 A

L1: Entry 9 of 12

File: DWPI

Feb 24, 2000

DERWENT-ACC-NO: 2000-206008

DERWENT-WEEK: 200134

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TITLE: Protecting plants against bacteria infections and/or viral infections transmitted by bacteria comprising introducing the ability of synthesizing N-acyl-L-homoserine lactone into the plant

INVENTOR: FRAY, R G; GRIERSON, D ; STEWART, G S A B ; THROUP, J P B ; WALLACE, A D R ; THROUP, J P ; WALLACE, A D

PRIORITY-DATA: 1998GB-0017707 (August 13, 1998)

PATENT-FAMILY:

PUB-NO LANGUAGE PUB-DATE PAGES MAIN-IPC WO 200009696 A1 February 24, 2000  $\mathbf{E}$ 019 C12N015/31 E EP 1105491 A1 June 13, 2001 000 C12N015/31 AU 9953795 A March 6, 2000 000 C12N015/31

INT-CL (IPC): A01 H 5/00; C12 N 15/31; C12 N 15/82

Full Title Cit	ation Front Review	Classification Date	Reference	Sequences	Attachments
lmage					

10. Document ID: US 5759798 A

L1: Entry 10 of 12 File: DWPI Jun 2, 1998

DERWENT-ACC-NO: 1998-332131

DERWENT-WEEK: 199829

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TITLE: Assay for light-dependent detection of auto:inducer(s) - uses mutant auto:inducer bacteria that have mutation(s) in their auto:inducer luminescence

pathways

INVENTOR: DUNLAP, P V

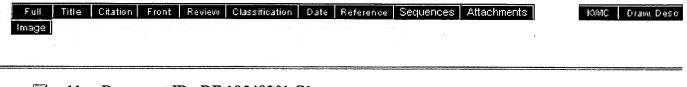
PRIORITY-DATA: 1995US-0569973 (December 8, 1995)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US 5759798 A
 June 2, 1998
 009
 C12Q001/02

INT-CL (IPC): C12 Q 1/02



11. Document ID: DE 19548301 C1

L1: Entry 11 of 12 File: DWPI Feb 27, 1997

DERWENT-ACC-NO: 1997-134163

DERWENT-WEEK: 199713

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